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Lunæ ad fixas Appulsus, *Derbia* Anno 1674. observabiles, ab Ephe-  
meride Doctissimi D. *Heckeri* deducti, & brevibus notis descripti à  
7. *Flamstead*.

1673.

Januarii.

6. 4<sup>h</sup>. 53' p.m. Luna in  $\Upsilon$  14°-00' latitudo Septentr. 5°-16'. Fixa ibi  
4°-08' horoscopus  $\Omega$  6. Ergo tunc Luna fixam sub Austrino limbo teget,  
vel modico ab ea intervallo distabit.

7. 16<sup>h</sup>. 07' D<sup>r</sup> in  $\Pi$  3°-37'. latitudo 4°-50' ; fixa 3°-57' Sept. horosco-  
pus  $\mp$  4°. Ergo Luna occidit priusquam fixam assequatur, à qua ta-  
men, cum eadem visibili ferè latitudine occasura, limbus ejus orientalis  
distabit summum 15' scrup.

10. 4<sup>h</sup>. 32. D<sup>r</sup> in  $\Theta$  9° 37' latitudo 2°-36' Sept. fixa 1° 31' oriente  $\Omega$   
6°. Ergo luna limbus Austrinus paulò ante Solis occasum vel fixam  
tanget, vel modico interposito intervallo prater-transibit.

11. 5<sup>h</sup>. 12' D<sup>r</sup> in  $\Sigma$  25°-00' latit. borea 1°-07'. fixa 1°-15' horoscopus  
 $\Omega$  14<sup>h</sup> ½ : Ergo luna limbus boreus, semihorà circiter ante Solis occa-  
sum, transit ferè 30' infra fixam.

Eadem nocte 17<sup>h</sup> 14' p.m. digiti 9' cum parte digiti tertia lunaris  
corporis obscurantur ; & deinceps, horà nim.

19<sup>h</sup> 33', Luna erit in  $\Omega$  4°-11' cum latitudine Borea 0°-28'. Fixa  
ibi latitudo est 0°-04' merid. Propterea tunc Lune limbus orientalis in  
eadem cum fixa Azimutha conspicietur, cujus limbus proximus ab ea  
distabit.

16' circiter: utilius phainomenon; quippe vix ab umbris terræ Luna li-  
berabitur, cum ejus ab hac fixa distantia, tubis capacioribus commodè  
mensurari possit. Vigilate bene instructi Calispices.

12. 19<sup>h</sup>. 27' D in  $\Omega$  18°-54'. latitudo Sept. 1°-07'. fixa 1°-15' horosco-  
pus  $\approx$  22°. Luna ergo, circa Solis ortum eandem cum fixa longitudinem  
asssecuta, limbus austrinus ab ea distabit scrupulos circiter 30'.

29. 6<sup>h</sup>. 37' D<sup>r</sup> in  $\times$  22.08 lat. Sept. 3°-36'. fixa. 3°-25'. horoscopus  $\approx$  11.  
Ergo sub occasum D<sup>r</sup> hora 7<sup>h</sup>-50'. fixa erit aliquantulum in antece-  
dentia centri Lunæ & limbo boreo borealior.

Februarii.

2. 11<sup>h</sup>. 57' D locus  $\Upsilon$  14°-00'. latitudo ejus 5°-14' bor. fixa lat. 4°-08'.  
horoscopus  $\approx$  9. Ergo luna occasura dimidium gradus in antecedentia  
fixe cum tanta majori latitudine conspicienda.

3. 9<sup>h</sup>. 19'. Luna cum lucida Pleiadum latitudinem habet 5°-03'. Sept.  
oriente  $\approx$  12: quamobrem post sesquihoram borealiores Pleiadum medio  
corpore & limbi obscuri abscondet, sed occidentalem, lucidam, & in  
cuspide ad ortum illibatus pratertransibit.

6. 07<sup>h</sup>. 39'. Luna in  $\Sigma$  5°-25' latitudo 2°-54' Sept. fixa 2°-11' horo-  
scopus  $\approx$  27. Ergo luna circa 7<sup>h</sup> ¼ p.m. fixam abscondet lucis tertia  
in Australi parte limbi obscuri.

11.  $6^h-48'$ .  $D^x$  in  $\text{III}$   $19^\circ-44'$ . latitudo  $3^\circ-24'$ . *Aust.* fixa 3-47. horoscopus  $\text{III}$   $21\frac{1}{2}$  : propterea limbus Luna orientis, fixa proximus in consequentia ejus 35 saltem scrupulos conspicietur.

13.  $10^h-4'$ .  $D^x$  in  $\text{II}$   $21^\circ-38'$ . lat.  $5^\circ-00'$  ; fixa 6-16 *Meridionalis* ; horoscopus  $\text{III}$  3 : propterea luna orientis limbus proximus distabit circiter 40' scrupulos.

16.  $17^h-07'$ .  $D^x$  in  $\text{I}$   $5^\circ-56'$ . latitudo  $4^\circ-39'$  ; fixa  $5^\circ-50'$  *Australis* ; horoscopus  $\text{X}$  27° : Luna propterea aliquantulum in consequentia fixa videbitur, à qua tamen limbus ejus australior hand longè distabit.

#### Martii.

3.  $6^h-07'$ .  $D^x$  in  $\text{II}$   $3^\circ-04'$ . latitudo  $4^\circ-23'$  ; fixa  $3^\circ-57'$  *Sept.* horoscopus  $\text{III}$  27. Ergo luna circa horam septimam superiori parte limbi obscuri subteget fixam.

15.  $13^h-37'$ .  $D^x$  in  $\text{III}$   $28^\circ-28'$ . latitudo 4-41 ; fixa  $5^\circ-22'$ . horoscopus  $\text{I}$  24. Ergo luna sub ejus occasum, superiori parte limbi lucidi assequetur fixam lucis tertia.

#### Aprilis.

3.  $7^h-19'$ .  $D^x$  in  $\text{III}$   $25^\circ-00'$ . latitudo  $0^\circ-56'$ . *Sept.* ; fixa  $1^\circ-15'$ . horoscopus  $\text{II}$  29. Luna propterea tunc in eadem cum fixa fere longitudine, limbus boreus ab ea distabit 34' summum.

9.  $7^h-29'$ .  $D^x$  in  $\text{II}$   $21^\circ-38'$ . latitudo 4-50 *Aust.* ; fixa 6-16. horoscopus  $\text{III}$  5. Ergo luna orientis limbus inferior à fixa distabit (altem 30'.

#### Maii.

22.  $15^h-29'$ .  $D^x$  in  $\text{IV}$   $15^h-00'$ . latitudo *Sept.* 5-00 ; fixa 4-08. horoscopus  $\text{II}$  5 : propterea luna oriens fixam medio limbi lucidi occupabit.

#### Julii.

3.  $10^h-07'$ .  $D^x$  in  $\text{I}$   $5^\circ-15'$ . latitudo *Australis*  $4^\circ-17'$  ; fixa *Antaris*  $4^\circ-27'$ . horoscopus  $\text{X}$  17. Ergo luna limbus altior transit ; saltem infra Antaren, hora  $10\frac{1}{2}$  : Et sesquihora post, luna occidentis limbus transit fere 30' supra sequentem fixam in  $\text{I}$  5-56. cum latitudine aust. 5-50.

20.  $14^h-2'$ .  $D^x$  in  $\text{III}$   $9^\circ-37'$ . latitudo  $1^\circ-46'$  ; *Sept.* fixa  $1^\circ-31'$ . oriente  $\text{III}$   $13\frac{1}{2}$ . Ergo luna recens exorta stellam aliquantulum prætergressa est, à qua tamen limbi vel cornu lucidi distantia, satis forsan commodè capi potest.

#### Augusti.

8.  $8^h-59'$ .  $D^x$  in  $\text{X}$   $22^\circ-08'$ . latitudo *Sept.*  $4^\circ-08'$  ; fixa 3-25. punctum oriens  $\text{IV}$   $3\frac{1}{2}$  : Ergo luna paulò post 8<sup>h</sup>. boreali parte limbi lucidi conseqget fixam.

12.  $16-27$ .  $D^x$  in  $\text{IV}$   $14^\circ-00'$ . latitudo  $5^\circ-03'$ . *bor.* ; fixa  $4^\circ-08'$ . horoscopus  $\text{II}$  25 ; quamobrem circa 17 hor. luna limbus austrinus transibit paulò supra fixam.

13.  $14^h-33'$ . luna in  $\vartheta$   $25^\circ-28'$ . latitudo  $4^\circ-41'$ . Pleiades  $4^\circ-00'$ . punctum oriens  $\Omega$   $5\frac{1}{2}$ . Propterea circa 13 hor. luna medio limbi lucidi abscondet occidentalem lucidiorem, & circa 14 hor. ipsam lucidam, medio nimirum inferioris limbi lucidi quadrantis.

16.  $15^h-24'$ .  $\mathcal{D}^*$  in  $\vartheta$   $5^\circ-25'$ . latitudo  $2^\circ-07'$ . hor; fixa  $2^\circ-11'$ . horoscopus  $\Omega$   $17\frac{1}{2}$ . Ergo luna limbus superior transit  $30'$  circiter infra fixam hor.  $14\frac{1}{2}$ .

#### Septembris.

4.  $15^h-09'$ .  $\mathcal{D}^*$  in  $\vartheta$  Solis in  $\times$   $22^\circ-08'$ . latitudo  $4-06$ ; fixa  $3^\circ-25'$ . Sept. horoscopus  $\Omega$   $25\frac{1}{2}$ . Ergo ante occasum suum luna abscondet fixam, infra lineam, per centrum ejus Ecliptica ductam parallelam.

23.  $6^h-2'$ .  $\mathcal{D}^*$  in  $\tau$   $5^\circ-15'$ . latitudo  $3^\circ-54'$ . fixa  $4^\circ-27'$ . merid. horoscopus  $\vee$   $25^\circ\frac{2}{3}$ . Ergo luna limbus superior circa  $6\frac{1}{2}$  p.m. transit paulo infra Antarem; si non ipsam abscondat.

#### Octobris.

7.  $17^h-53'$ .  $\mathcal{D}^*$  in  $\Pi$   $3^\circ-34'$ . latitudo Sept.  $3^\circ-55'$ ; fixa  $3^\circ-57'$  horoscopus  $\approx 15$ : Luna propterea in eadem cum fixa longitudine circa Solis ortum limbus boreus ab ea distabit  $17'$  circ.

#### Novembris.

3.  $8^h-57'$ . luna in  $\vartheta$   $25^\circ-28'$ . lat. Sept.  $4^\circ 16'$ . Pleiadum lucida tantum  $4-00'$ . horoscopus  $\Omega$   $0\frac{1}{2}$ . Ergo paulo ante octavam  $\mathcal{D}$  subteget australissimam Pleiadum limbo austrino, & semihorâ post, infra lucidam ibit 5 min. Dignius Phenomenon, quippe luna in oppositu Solis versatur.

5.  $8^h-27'$ .  $\mathcal{D}^*$  in  $\Pi$   $20^\circ-55'$ . latitudo  $2^\circ-36'$ ; fixa  $2^\circ-28'$ . Sept. horoscopus  $\vartheta$   $26\frac{1}{2}$ . Ergo circa  $7\frac{1}{2}$  luna limbus superior ibit infra fixam saltem  $20'$  min.

30.  $17^h-03'$ . luna rursus cum lucida Pleiadum latitudinem habet borealem  $4^\circ-17'$ . oriente  $\mathcal{M}$   $14^\circ$ : quamobrem limbus ejus superior mox ibit infra occidentalem lucidiorem  $15$ . & occasura distabit tantundem fere a lucida.

#### Decemb.

2.  $16^h-02'$ .  $\mathcal{D}^*$  in  $\Pi$   $20^\circ-55'$ . latitudo  $2^\circ-55'$ . hor; fixa  $2^\circ-28'$ . horoscopus  $\mathcal{M}$   $5^\circ\frac{1}{2}$ : Ergo luna limbus superior circa horam  $17\frac{1}{2}$  ibit 15 min. fere infra stellam, in  $\delta$   $\odot$ .

27.  $4^h-07'$ . luna in  $\vartheta$   $14^\circ-00'$ . latitudo borea  $4^\circ-52'$ ; fixa  $4^\circ-08'$ . horoscopus  $\vartheta$   $21$ . Luna propterea stellam longitudine jam superavit, a qua tamen ejus distantiam, tubo capaciiori, aummodò permittat calum, metiri licebit.

Reliquorum quinque Planetarum ad Fixas appulsus Anno 1674. ob  
servabiles ab iisdem Ephemeridibus deducti à *J. Flamsteed.*

	h.	Loc. planet.	Latitud.	Distantiæ à fixis in longit.	Latitudine
		s. o			
Januar.	76 mane	♂ in 7 17--28	0--08 Auf.	2 in consequentia 28 m <sup>i</sup> cum	0--28 Auf.
	86 mane	♂ 7 18--11	0--08 Auf.	4 in antecedentia 29 m <sup>i</sup> cum	0--37 Auf.
	126 mane	♀ 10--16	0--09 Bor.	15 in antecedentia 8 7 <sup>i</sup> cum	0--50 Bor.
	266 mane	♀ 27--45	0--28 Auf.	31 in antecedentia 8 7 <sup>i</sup> ---	0--52 Auf.
	306 mane	♀ 2--45	0--36 Auf.	24 in antecedentia 10 7 <sup>i</sup> ---	0--51 Auf.
Febr.	46 mane	♀ 8--51	0--47 Auf.	33 in antecedent. 19 7 <sup>i</sup> ---	0--18 Auf.
	76 mane	♀ 12--38	0--53 Auf.	32 in antecedent. 20 7 <sup>i</sup> ---	0--25 <sup>1</sup> Bor.
	156 vesp.	♂ 13--27	2--20 Auf.	cum 14 7 <sup>i</sup> & latitudine	0--49 Auf.
	226 mane	♀ 1--20	1--17 Auf.	24 in consequent. 15 ---	0--07 Auf.
Martii	196 mane	♂ 9--02	1--08 Auf.	21 in ant. 19 7 <sup>i</sup> ---	0--39 Auf.
	256 mane	♂ 13--27	1--13 Auf.	17 in consequent. 20 7 <sup>i</sup> ---	0--04 <sup>1</sup> Auf.
Aprilis	68 vesp.	♀ 16--46	2--46 Bor.	28 in conf. 9 7 <sup>i</sup> ---	1--00 Bor.
	78 vesp.	♀ 17--35	2--47 Bor.	8 in conf. 10 7 <sup>i</sup> ---	0--03 Auf.
	98 vesp.	♀ 18--51	2--47 Bor.	2 in ant. 11 7 <sup>i</sup> ---	0--11 Bor.
	96 mane	♂ 24--32	1--28 Auf.	16 in conf. 16 ---	0--32 Bor.
	185 mane	♂ 1--08	1--35 Auf.	13 in conf. 15 ---	0--25 Auf.
	218 vesp.	♀ 13--27	1--18 Bor.	cum 5 --- & ---	0--04 Bor.
	304 mane	♂ 9--53	1--46 Auf.	10 in ant. 24 ---	0--22 Auf.
Maii	44 mane	♂ 12--51	1--49 Auf.	10 in conf. 25 ---	0--49 Auf.
	158 vesp.	♀ 10--33	1--14 Bor.	cum 1 --- & ---	0--48 Bor.
	238 vesp.	♀ 9--45	1--13 Bor.	1 in ant. 2 ---	0--42 Auf.
Junii	59 vesp.	♀ 9--19	1--03 Bor.	21 in ant. 21 ---	0--28 Auf.
	164 mane	♂ 13--29	2--17 Auf.	1 in conf. 14 7 <sup>i</sup> ---	0--46 Auf.
	187 vesp.	♀ 25--13	1--23 Bor.	14 in conf. 8 7 <sup>i</sup> ---	0--07 Bor.
	4 mane	♂ 18--53	2--20 Auf.	7 in conf. 16 7 <sup>i</sup> ---	0--43 Bor.
	9 vesp.	♀ 2--32	1--29 Bor.	18 in ant. Præceptis 7 <sup>i</sup> ---	0--15 Bor.
	294 mane	♂ 10--26	2--23 Auf.	cum --- 14 7 <sup>i</sup> ---	0--57 Auf.
Julii	119 vesp.	♀ 23--14	1--33 Bor.	10 in ant. 16 7 <sup>i</sup> ---	0--37 Auf.
	139 vesp.	♀ 25--40	1--32 Bor.	20 in consequentia Cord. 7 <sup>i</sup> ---	1--05 Bor.
	259 vesp.	♀ 10--14	1--20 Bor.	13 in conf. 38 7 <sup>i</sup> ---	0--00
	268 vesp.	♀ 9--42	0--57 Bor.	2 in ant. 2 --- & ---	0--58 Auf.
	289 vesp.	♀ 13--32	1--17 Bor.	19 in conf. 24 7 <sup>i</sup> ---	0--23 Auf.
	48 vesp.	♀ 10--37	0--55 Bor.	4 in conf. 1 --- & lat. ---	0--29 B. ver.
	48 vesp.	♀ 22--16	1--04 Bor.	19 in ant. 5 7 <sup>i</sup> ---	0--21 Bor.
August.	118 vesp.	♀ 00--43	0--47 Bor.	24 in conf. 6 7 <sup>i</sup> ---	0--38 Auf.
	258 vesp.	♀ 13--25	0--50 Bor.	3 in ant. 5 ---	0--24 Bor.
	287 vesp.	♀ 21--03	0--02 Auf.	16 in conf. 18 7 <sup>i</sup> ---	0--17 Bor.
Sept.	155 mane	♀ 14--28	1--02 Bor.	16 in conf. 24 7 <sup>i</sup> ---	0--38 Auf.
	185 vesp.	♀ 15--56	1--15 Auf.	24 in ant. 18 ---	0--33 Bor.
	266 vesp.	♀ 00--00	1--54 Bor.	9 in ant. 6 7 <sup>i</sup> ---	0--29 Bor.
	286 vesp.	♀ 27--40	1--50 Auf.	22 in ant. 2 m <sup>i</sup> ---	0--04 Bor.
Octob.	155 vesp.	♀ 23--03	0--42 Bor.	7 in ant. 11 ---	0--40 Bor.
	315 vesp.	♀ 5--09	3--01 Auf.	34 in ant. 6 7 <sup>i</sup> ---	0--49 Bor.
	25 vesp.	♀ 7--21	3--02 Auf.	33 in ant. 5 7 <sup>i</sup> ---	0--29 Bor.
Novem.	115 vesp.	♀ 16--59	3--00 Auf.	30 in ant. 16 7 <sup>i</sup> ---	0--08 Bor.
	176 vesp.	♀ 15--21	1--01 Bor.	3 in conf. 9 7 <sup>i</sup> ---	0--45 Auf.
	95 vesp.	♀ 13--23	1--16 Auf.	18 in conf. 20 7 <sup>i</sup> ---	0--00
Decem.	205 vesp.	♀ 20--58	0--16 Bor.	21 in ant. 37 7 <sup>i</sup> ---	0--26 Bor.
	276 vesp.	♀ 16--22	1--51 Auf.	32 in ant. 26 7 <sup>i</sup> ---	0--30 Bor.
	276 vesp.	♂ 16--22	1--51 Auf.	4 in conf. 9 7 <sup>i</sup> cum lat. ---	0--05 B. ver.

*De Lunæ Eclipsibus tacui ferè, quippe quas amicus quidam in Ephemeride sua accuratius à Theoria Horrocciana supputavit. Saturni & Jovis ad fixas appulsus per noctes aliquot cum præcedentes, tum diem, in tabula conjunctioni conscriptam sequentes observare licet: Jovisque citius quippe ejus in phemeride Heckeriana motus 13' min. justo tardiores hoc anno reperiuntur. Commodum foret, etiam ad transitus  $\delta^{iii}$ ,  $\eta^{ii}$ , &  $\zeta^{ii}$  per fixam nocte tum præcedente tum sequente eam in tabula exaratam attendere, ne ipso tempore minus sit serenum Cælum; quod Cælipspicibus serenius quam per elapsum annum expertus est, hisce Phainomenis observandis exoptat. Derbyæ Dec. 3. 1673. J. F.*

An Account of some Books.

1. PHARMACEUTICE RATIONALIS, sive Diatriba de Medicamentorum Operationibus in Humano corpore: Auth. Tho. Willis M.D. in Univ. Oxon. Prof. Sedlejano, nec non Coll. Med. Lond. & Societ. Reg. Socio. E Theat. Sheldoni. 1673. in 4°.

THE Design and Business of this Instructive and Useful piece is, To give the Mechanical reason of the operation of all sorts of Medicines upon the Animal spirits in Mans body, and after what manner and how many ways they ferment the Blood and Humors in the same. For the clearer understanding of which, the Excellent Author premiseth an exact Description and Representation of the Stomach and Bowels, in which those Animal Spirits do lodge, and are first of all by the particles of the medicine wrought upon. In the doing of which, he hath in a very accurate manner examined those parts, from the very Mouth to the end of the Bowels; and in each of them very elaboratly laid open their Nervous, Muscular and Glandulous membrans, and shew'd the several positions of fibres in them, lying long-ways, transverse and oblique, some meerly serving for sense, others for variety of motion; together with the curious woof of the Arteries and Veins, and the rare contrivance of numerous Glanduls.

This being dispatch'd, he makes it his business to explain the principal thing propos'd, which, he saith, hath been hitherto one of the *Desiderata* in Physick, viz. In what manner, and by what kinds of impression upon the parts of an Human Body, Medicaments perform their operations, that is to say, How and Why some Medicins are Vomitive, some Purgative, others Sudorifique,